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S E C R E T 212158Z CITE [] 1564.

1967 AUG 21 22 21Z

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SUBJECT: FILM TYPE SR-100

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REFERENCE: []

1. [] HAS EVALUATED THE RELATIVE DIFFERENCES BETWEEN THE SR-100 AND 8430 FILM SAMPLES PREPARED BY [].

2. THE FOLLOWING WAS DETERMINED BY SUBJECTIVE EVALUATION USING THE DUPLICATE POSITIVE COPIES OF THE MATERIAL.

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A. NO DIFFERENCE WAS VISUALLY APPARENT BETWEEN DUPLICATE COPIES PRODUCED ON THE SAME FILM TYPE.

B. THE GRANULARITY AND DEFINITION CAPABILITY OF SR-100 APPEARS COMPARABLE TO THAT OF 8430.

C. A DENSITY DIFFERENCE WAS READILY APPARENT BETWEEN THOSE COPIES PRODUCED ON 8430 AND THOSE PRODUCED ON SR-100. IN ALL CASES THE D-MAX OF THE 8430 COPIES APPEARED HIGHER (MORE DENSE).

D. IN MOST CASES, THE D-MIN OF COPIES ON BOTH FILM TYPES APPEARED TO BE SIMILAR.

E. DUE TO THE CONSISTENTLY LOWER D-MAX ON THE SR-100 COPIES AND A SIMILAR D-MIN, THE APPARENT CONTRAST OF THE SR-100 COPIES IS LESS THAN THAT OF THE 8430 COPIES. IT APPEARS FROM THIS STUDY THAT THE RANGE OF THE SR-100, AS PROCESSED, IS SLIGHTLY LESS THAN THE RANGE OF 8430.

F. DIFFERENCE IN THE GREY TONES OF THE SR-100 AND THE BLUE BASE OF THE 8430 IS CONSIDERED MINOR AND INCONSEQUENTIAL.

G. THE OVERALL DENSITY (D-MIN THRU D-MAX) OF THE SR-100 COPIES APPEARS TO BE SLIGHTLY LESS IN REV 22, FWD, FRAMES 1-75 THAN DOES THE CORRESPONDING 8430 COPIES.

H. REV 54, FWD, FRAMES 1-75 AND REV 22 AFT, FRAMES 1-75 PROVIDED THE CLOSEST VISUAL MATCH BETWEEN FILM TYPES. EVEN SO, THE HIGHER D-MAX OF THE 8430 MATERIAL WAS APPARENT.

3. SUBJECTIVE EVALUATION OF THE DUPLICATE NEGATIVE COPIES PROVIDED THE FOLLOWING RESULTS:

A. COMMENTS OF PARAGRAPHS 2A AND 2B ALSO APPLY TO THE DN'S.

B. THE OVERALL DENSITY OF THE SR-100 COPIES IS CONSIDERABLY GREATER THAN THAT OF THE 8430 COPIES ON REV 22, AFT, FRAMES 1-75.

C. THE APPARENT CONTRAST OF THE SR-100 IS LESS THAN THAT OF THE 8430.

D. THE TONAL RANGE OF THE SR-100 FILM TYPE IS SLIGHTLY LESS THAN THAT OF THE 8430.

4. PAPER PRINTS PREPARED AT [] FROM BOTH THE 8430 AND SR-100 DN'S SHOWED THEM CAPABLE OF PRODUCING SIMILAR QUALITY PRINTS. THE REDUCED TONAL RANGE OF THE SR-100 STOCK IS, HOWEVER, SUBTLY APPARENT.

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5. DENSITY MEASUREMENTS OBTAINED BY A MACBETH QUANTALOG DENSITOMETER, MODEL EP 1000, WITH AN ET 20 ATTACHMENT AND A 0.5 MM APERTURE SUBSTANTIATE THE VISUAL OBSERVATIONS AS STATED IN PARAGRAPHS 2C, 2D, 2E, 3B, 3C, AND 3D.

6. IT IS FELT THAT SR-100 COULD SUFFICE AS A SUBSTITUTE FOR 8430. STILL, CONSIDERING OVER ALL APPEARANCE, THOSE COPIES PRODUCED ON 8430 WERE PREFERRED OVER THOSE ON THE SR-100 STOCK IN ALL CASES.

7. THIS ANALYSIS IS BASED ONLY ON THOSE SAMPLES OF MATERIAL PROVIDED BY []

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END OF MESSAGE

Declassification Review by NGA/DoD

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